

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P249621

Luminaire Tested: **LD8B200D010 ER8B200930 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200930 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17892.3 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

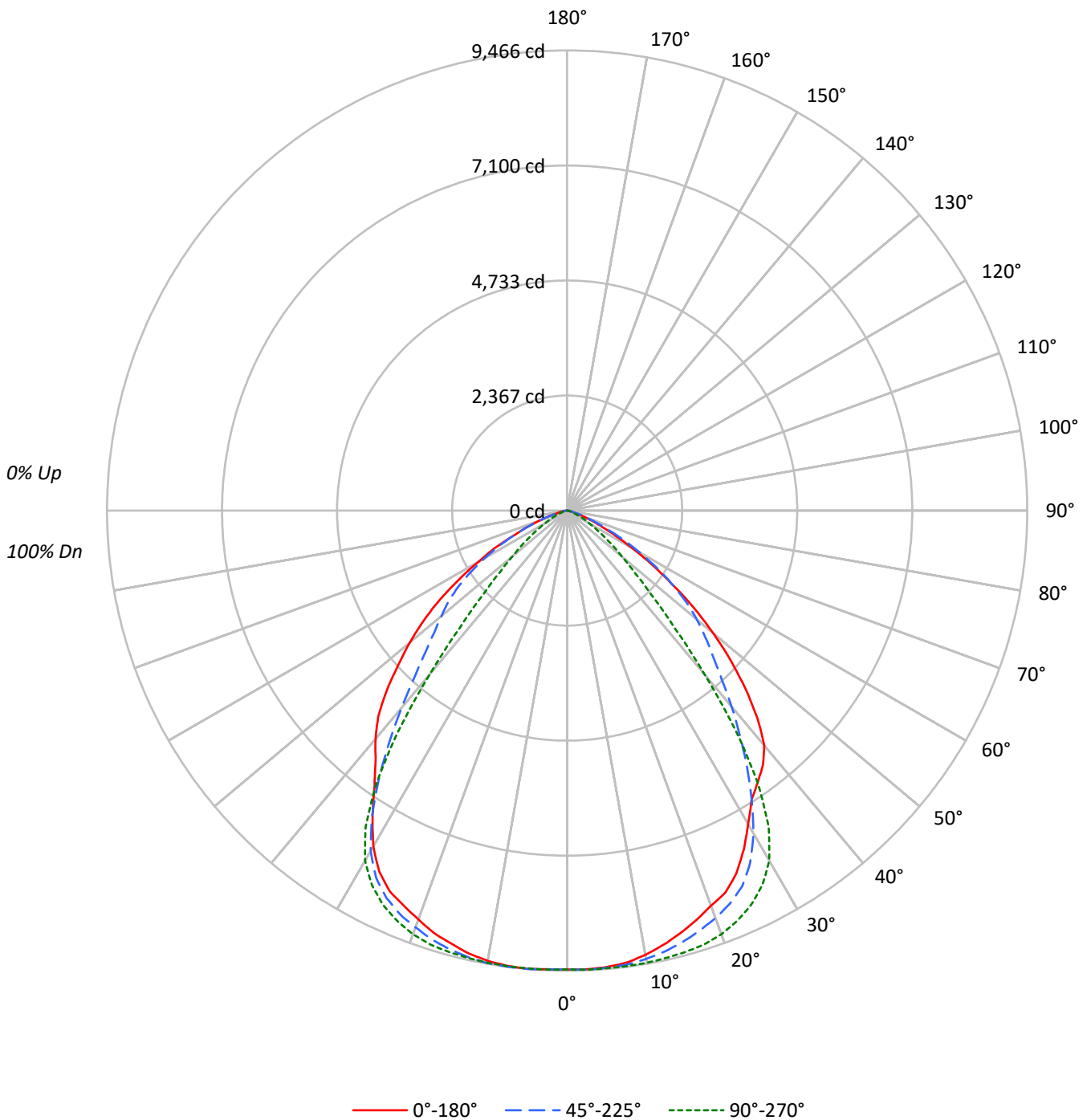
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	900.9	5.0
10°-20°	2616.5	14.6
20°-30°	3971.3	22.2
30°-40°	4171.1	23.3
40°-50°	3127.2	17.5
50°-60°	2006.5	11.2
60°-70°	858.3	4.8
70°-80°	202.8	1.1
80°-90°	37.7	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7488.7	41.9
0°-40°	11659.8	65.2
0°-60°	16793.4	93.9
0°-90°	17892.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17892.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9440	9440	9440	9440	9440	
5°	9425	9440	9450	9466	9461	895
15°	8999	9187	9400	9339	9222	2538
25°	8234	8523	8954	8792	8640	3762
35°	6831	6451	6836	6755	6907	4287
45°	5189	4241	2437	4120	5260	3974
55°	2625	2625	907	2736	3197	2381
65°	790	932	289	1201	1221	844
75°	122	142	41	243	238	177
85°	41	25	20	41	56	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	9440.3	9440.3	9440.3	9440.3	9440.3	9440.3	9440.3	9440.3	9440.3	9440.3	9440.3
2.5°	9445.4	9455.5	9450.5	9450.5	9445.4	9450.5	9450.5	9460.7	9460.7	9450.5	9445.4
5°	9425.0	9435.2	9435.2	9425.0	9425.0	9450.5	9435.2	9445.4	9445.4	9440.3	9440.3
7.5°	9379.5	9379.5	9399.8	9384.7	9384.7	9399.8	9394.7	9404.9	9415.1	9420.1	9420.1
10°	9278.2	9288.3	9293.4	9293.4	9298.5	9313.6	9323.8	9344.1	9354.2	9364.3	9369.4
12.5°	9151.5	9166.6	9171.8	9166.6	9181.9	9202.2	9227.5	9252.8	9268.1	9288.3	9303.5
15°	8999.4	8999.4	9009.6	9024.8	9035.0	9065.4	9090.6	9121.0	9161.6	9187.0	9212.3
17.5°	8832.2	8842.4	8857.6	8857.6	8877.9	8928.5	8943.8	8989.4	9035.0	9060.3	9111.0
20°	8649.9	8659.9	8675.2	8685.4	8710.6	8751.2	8781.6	8822.2	8872.8	8918.5	8969.0
22.5°	8507.9	8487.8	8497.7	8507.9	8533.4	8568.8	8604.2	8654.9	8705.6	8751.2	8801.9
25°	8234.3	8239.4	8254.6	8264.7	8295.2	8325.6	8366.1	8426.9	8472.5	8523.2	8578.9
27.5°	7864.4	7869.5	7894.8	7894.8	7920.1	7970.8	7996.1	8046.9	8107.7	8158.3	8224.2
30°	7443.9	7453.9	7453.9	7474.3	7489.4	7514.7	7540.1	7590.7	7621.1	7666.7	7758.0
32.5°	7058.7	7068.8	7063.8	7058.7	7043.5	7038.4	7033.4	7043.5	7053.7	7068.8	7104.2
35°	6830.7	6805.4	6785.1	6749.7	6709.1	6658.4	6612.8	6552.0	6496.2	6450.6	6400.0
37.5°	6612.8	6607.7	6577.4	6526.6	6445.5	6354.4	6248.0	6116.2	5984.5	5842.5	5705.8
40°	6308.8	6293.5	6268.2	6197.3	6106.1	5994.5	5852.7	5690.5	5477.7	5259.8	5036.9
42.5°	5791.9	5796.9	5766.5	5710.7	5624.7	5518.2	5371.3	5193.9	4965.9	4707.4	4418.6
45°	5188.9	5188.9	5178.7	5133.1	5072.3	4986.2	4874.7	4727.8	4504.9	4241.3	3932.1
47.5°	4560.6	4565.6	4550.4	4540.3	4514.9	4459.2	4378.2	4266.6	4109.6	3856.1	3547.1
50°	3922.2	3922.2	3947.4	3942.3	3942.3	3922.2	3886.6	3820.7	3683.9	3481.3	3192.4
52.5°	3283.5	3293.7	3309.0	3329.1	3354.5	3395.1	3354.5	3324.1	3237.9	3080.8	2832.7
55°	2624.8	2635.0	2660.2	2695.8	2726.3	2766.7	2776.8	2776.8	2731.2	2624.8	2437.4
57.5°	2062.4	2047.2	2067.5	2097.8	2138.4	2179.0	2209.4	2244.8	2239.8	2168.8	2016.8
60°	1550.6	1555.7	1570.9	1601.3	1631.7	1667.2	1707.7	1738.1	1753.4	1717.8	1621.5
62.5°	1130.1	1130.1	1150.3	1180.6	1195.9	1246.6	1271.9	1287.1	1302.3	1297.1	1236.5
65°	790.5	800.6	810.7	826.0	841.1	871.5	886.7	917.1	927.3	932.3	886.7
67.5°	557.5	542.2	552.3	562.4	577.7	597.9	628.3	628.3	643.5	643.5	613.1
70°	354.7	354.7	359.8	375.0	385.1	390.2	400.3	410.4	425.6	420.6	420.6
72.5°	238.2	233.1	238.2	243.3	248.3	263.4	263.4	268.6	278.7	283.8	263.4
75°	121.6	126.7	136.8	131.8	147.0	136.8	141.8	157.1	152.0	141.8	141.8
77.5°	101.3	101.3	101.3	96.3	106.4	106.4	101.3	111.4	106.4	106.4	101.3
80°	71.0	76.0	71.0	65.8	71.0	65.8	65.8	65.8	65.8	65.8	60.8
82.5°	55.8	45.6	50.7	45.6	50.7	50.7	45.6	40.6	40.6	45.6	40.6
85°	40.6	30.4	35.4	35.4	30.4	30.4	30.4	30.4	30.4	25.3	25.3
87.5°	25.3	15.2	15.2	15.2	20.2	20.2	20.2	15.2	20.2	20.2	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9440.3	9440.3	9440.3	9440.3	9440.3	9440.3	9440.3	9440.3	9440.3	9440.3	9440.3
2.5°	9455.5	9450.5	9460.7	9455.5	9455.5	9450.5	9455.5	9450.5	9460.7	9440.3	9445.4
5°	9455.5	9445.4	9450.5	9455.5	9460.7	9450.5	9450.5	9450.5	9460.7	9450.5	9455.5
7.5°	9435.2	9430.2	9445.4	9455.5	9450.5	9445.4	9455.5	9450.5	9460.7	9455.5	9465.6
10°	9394.7	9399.8	9409.9	9425.0	9430.2	9435.2	9445.4	9445.4	9460.7	9440.3	9450.5
12.5°	9333.9	9354.2	9379.5	9389.6	9409.9	9409.9	9420.1	9425.0	9435.2	9430.2	9445.4
15°	9257.9	9283.2	9313.6	9339.1	9364.3	9379.5	9394.7	9399.8	9415.1	9399.8	9404.9
17.5°	9166.6	9197.0	9242.6	9273.0	9313.6	9328.8	9349.0	9359.2	9374.5	9364.3	9369.4
20°	9040.0	9075.5	9126.2	9171.8	9197.0	9232.6	9257.9	9273.0	9283.2	9273.0	9278.2
22.5°	8862.6	8913.4	8979.2	9014.6	9065.4	9095.8	9100.8	9136.3	9161.6	9136.3	9146.5
25°	8654.9	8705.6	8756.2	8832.2	8877.9	8913.4	8948.8	8953.9	8979.2	8974.2	8969.0
27.5°	8310.3	8376.2	8462.3	8523.2	8583.9	8639.8	8680.2	8690.3	8715.8	8705.6	8710.6
30°	7839.0	7910.1	7991.2	8087.3	8173.5	8229.3	8279.9	8315.4	8340.7	8325.6	8320.5
32.5°	7170.3	7241.1	7327.3	7423.5	7524.9	7605.9	7666.7	7712.4	7742.7	7732.7	7707.3
35°	6405.1	6425.3	6481.1	6557.1	6643.2	6729.4	6785.1	6835.7	6871.2	6881.4	6881.4
37.5°	5619.6	5553.8	5513.2	5513.2	5563.9	5599.3	5650.0	5680.3	5736.2	5756.3	5771.7
40°	4859.4	4707.4	4565.6	4459.2	4388.3	4383.2	4383.2	4398.4	4449.0	4514.9	4575.8
42.5°	4180.5	3937.3	3719.4	3521.7	3379.9	3298.8	3263.3	3268.5	3309.0	3369.7	3471.1
45°	3638.3	3334.3	3060.7	2822.5	2629.9	2503.2	2442.4	2437.4	2467.8	2538.6	2650.3
47.5°	3217.7	2893.4	2584.2	2310.6	2103.0	1966.1	1895.2	1875.0	1895.2	1961.0	2092.8
50°	2868.1	2533.7	2214.4	1930.6	1707.7	1565.8	1499.9	1474.6	1499.9	1555.7	1687.3
52.5°	2543.8	2199.2	1900.2	1626.6	1388.5	1266.8	1195.9	1180.6	1195.9	1261.7	1368.2
55°	2168.8	1875.0	1580.9	1307.3	1099.7	978.0	922.2	907.1	922.2	983.1	1094.5
57.5°	1799.0	1545.5	1287.1	1038.7	861.5	755.0	704.3	684.0	719.5	760.0	891.9
60°	1454.3	1251.7	1033.7	815.9	668.9	572.6	532.0	527.0	537.1	587.9	679.0
62.5°	1140.2	972.9	800.6	623.3	501.6	461.1	410.4	405.5	415.4	445.8	516.9
65°	820.9	714.5	582.7	456.0	359.8	304.0	283.8	288.9	299.0	319.3	385.1
67.5°	572.6	496.6	405.5	319.3	248.3	223.0	202.7	197.6	202.7	238.2	273.6
70°	385.1	339.4	273.6	243.3	172.3	136.8	141.8	126.7	147.0	147.0	177.3
72.5°	253.3	223.0	182.4	141.8	121.6	96.3	96.3	91.2	101.3	106.4	131.8
75°	131.8	101.3	101.3	71.0	50.7	25.3	45.6	40.6	35.4	40.6	50.7
77.5°	91.2	76.0	71.0	55.8	50.7	40.6	40.6	40.6	40.6	45.6	50.7
80°	55.8	55.8	40.6	35.4	30.4	25.3	30.4	30.4	30.4	30.4	35.4
82.5°	35.4	30.4	30.4	25.3	25.3	20.2	20.2	20.2	20.2	20.2	30.4
85°	30.4	20.2	20.2	15.2	20.2	35.4	15.2	20.2	20.2	20.2	15.2
87.5°	10.2	15.2	15.2	15.2	10.2	5.0	10.2	15.2	15.2	25.3	20.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9440.3	9440.3	9440.3	9440.3	9440.3	9440.3	9440.3	9440.3	9440.3	9440.3	9440.3
2.5°	9455.5	9460.7	9460.7	9455.5	9455.5	9445.4	9465.6	9450.5	9455.5	9475.8	9460.7
5°	9465.6	9470.7	9470.7	9465.6	9465.6	9465.6	9470.7	9470.7	9465.6	9460.7	9470.7
7.5°	9485.9	9480.9	9480.9	9470.7	9470.7	9460.7	9470.7	9455.5	9465.6	9455.5	9470.7
10°	9460.7	9465.6	9460.7	9455.5	9455.5	9450.5	9450.5	9435.2	9440.3	9425.0	9435.2
12.5°	9445.4	9440.3	9440.3	9430.2	9420.1	9409.9	9404.9	9389.6	9389.6	9354.2	9369.4
15°	9404.9	9409.9	9394.7	9374.5	9364.3	9339.1	9328.8	9308.6	9288.3	9263.0	9268.1
17.5°	9369.4	9354.2	9333.9	9313.6	9273.0	9252.8	9232.6	9202.2	9192.0	9161.6	9151.5
20°	9263.0	9252.8	9227.5	9192.0	9166.6	9121.0	9100.8	9070.5	9045.0	9014.6	8999.4
22.5°	9126.2	9116.0	9085.6	9050.2	9009.6	8989.4	8969.0	8913.4	8888.0	8857.6	8852.5
25°	8953.9	8938.6	8908.3	8867.8	8847.4	8791.8	8771.4	8730.9	8720.8	8690.3	8685.4
27.5°	8690.3	8670.2	8634.6	8583.9	8548.5	8513.0	8492.8	8462.3	8452.2	8421.7	8416.8
30°	8295.2	8269.7	8198.9	8178.6	8117.7	8082.3	8082.3	8041.7	8046.9	8026.6	8026.6
32.5°	7671.9	7631.3	7575.5	7535.0	7494.4	7474.3	7474.3	7459.0	7469.1	7469.1	7479.3
35°	6845.8	6790.2	6759.7	6734.4	6734.4	6754.6	6815.5	6830.7	6861.1	6886.4	6906.7
37.5°	5786.7	5781.8	5817.3	5847.7	5923.7	6009.8	6116.2	6207.4	6293.5	6354.4	6415.1
40°	4641.6	4768.3	4869.6	5011.5	5128.0	5295.3	5487.9	5644.9	5791.9	5898.4	6009.8
42.5°	3623.1	3785.3	3998.2	4205.8	4413.6	4641.6	4895.1	5112.9	5305.5	5452.3	5568.9
45°	2822.5	3045.4	3303.9	3567.4	3835.9	4119.8	4383.2	4606.2	4808.9	4960.9	5077.5
47.5°	2275.2	2518.4	2812.3	3101.1	3405.1	3704.1	3998.2	4190.6	4357.8	4479.4	4585.9
50°	1879.9	2138.4	2447.5	2776.8	3080.8	3379.9	3633.3	3820.7	3957.6	4064.0	4129.8
52.5°	1570.9	1844.5	2173.8	2503.2	2807.2	3080.8	3309.0	3450.9	3562.3	3638.3	3699.1
55°	1297.1	1560.8	1869.8	2179.0	2477.9	2736.2	2923.8	3030.3	3116.3	3161.9	3197.4
57.5°	1059.1	1302.3	1586.1	1869.8	2128.2	2341.1	2488.1	2594.4	2635.0	2670.4	2665.4
60°	831.1	1059.1	1317.5	1560.8	1783.7	1955.9	2062.4	2123.2	2153.6	2168.8	2158.6
62.5°	653.7	861.5	1059.1	1271.9	1434.1	1580.9	1682.4	1682.4	1697.5	1702.6	1717.8
65°	486.4	643.5	815.9	972.9	1104.6	1200.9	1256.8	1271.9	1292.2	1287.1	1276.9
67.5°	359.8	476.3	603.0	719.5	810.7	871.5	912.0	947.6	942.5	932.3	927.3
70°	248.3	324.3	435.8	506.7	572.6	633.5	643.5	648.6	653.7	658.7	648.6
72.5°	172.3	228.0	288.9	349.6	390.2	415.4	440.9	445.8	445.8	445.8	440.9
75°	86.2	116.6	172.3	197.6	233.1	243.3	263.4	263.4	278.7	258.4	253.3
77.5°	76.0	91.2	121.6	141.8	157.1	172.3	177.3	192.6	187.4	177.3	182.4
80°	45.6	55.8	76.0	86.2	106.4	111.4	116.6	121.6	116.6	121.6	121.6
82.5°	35.4	40.6	50.7	50.7	65.8	65.8	71.0	71.0	76.0	76.0	76.0
85°	20.2	35.4	30.4	60.8	40.6	40.6	50.7	60.8	50.7	50.7	60.8
87.5°	20.2	20.2	15.2	20.2	20.2	20.2	25.3	30.4	30.4	35.4	30.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P249621

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9440.3	9440.3	9440.3	9440.3
2.5°	9455.5	9465.6	9450.5	9445.4
5°	9470.7	9470.7	9460.7	9460.7
7.5°	9470.7	9470.7	9455.5	9445.4
10°	9430.2	9430.2	9415.1	9404.9
12.5°	9354.2	9354.2	9349.0	9333.9
15°	9257.9	9257.9	9237.6	9222.5
17.5°	9126.2	9136.3	9111.0	9111.0
20°	8984.3	8979.2	8959.0	8948.8
22.5°	8837.4	8827.2	8822.2	8791.8
25°	8680.2	8670.2	8654.9	8639.8
27.5°	8411.8	8406.6	8391.4	8371.2
30°	8001.1	7996.1	7975.9	7975.9
32.5°	7469.1	7464.1	7443.9	7448.9
35°	6916.8	6937.1	6927.0	6906.7
37.5°	6455.7	6471.0	6481.1	6471.0
40°	6070.6	6116.2	6121.3	6131.4
42.5°	5660.2	5720.9	5741.3	5751.3
45°	5168.6	5224.3	5269.9	5259.8
47.5°	4666.9	4707.4	4748.0	4717.6
50°	4185.6	4210.9	4226.2	4226.2
52.5°	3729.6	3729.6	3724.5	3729.6
55°	3207.5	3207.5	3187.3	3197.4
57.5°	2660.2	2670.4	2655.2	2629.9
60°	2153.6	2128.2	2118.1	2103.0
62.5°	1677.4	1677.4	1641.8	1687.3
65°	1256.8	1241.5	1226.3	1221.1
67.5°	912.0	907.1	891.9	886.7
70°	643.5	623.3	618.2	608.0
72.5°	430.7	430.7	420.6	420.6
75°	263.4	238.2	233.1	238.2
77.5°	182.4	177.3	177.3	172.3
80°	121.6	116.6	126.7	111.4
82.5°	76.0	81.0	76.0	81.0
85°	50.7	60.8	55.8	55.8
87.5°	30.4	30.4	30.4	30.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)